

HK CONTRACTORS (PWS 7100190)
SOURCE WATER ASSESSMENT FINAL REPORT

June 9, 2004



State of Idaho
Department of Environmental Quality

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Executive Summary

Under the Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency (EPA) to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the Act. This assessment is based on a land use inventory of the designated assessment area and sensitivity factors associated with the wells and aquifer characteristics.

This report, *Source Water Assessment for HK Contractors, Idaho Falls, Idaho*, describes the public drinking water system, the boundaries of the zones of water contribution, and the associated potential contaminant sources located within these boundaries. This assessment should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this source. **The results should not be used as an absolute measure of risk and they should not be used to undermine public confidence in the water system.**

The HK Contractors (PWS #7100190) drinking water system consists of one ground water well, Main Well. The system serves approximately 50 people through 3 connections.

Final susceptibility scores are derived from equally weighting system construction scores, hydrologic sensitivity scores, and potential contaminant/land use scores. Therefore, a low rating in one or two categories coupled with a higher rating in other category(ies) results in a final rating of low, moderate, or high susceptibility. With the potential contaminants associated with most urban and heavily agricultural areas, the best score a well can get is moderate. Potential contaminants are divided into four categories, inorganic contaminants (IOCs, e.g. nitrates, arsenic), volatile organic contaminants (VOCs, e.g. petroleum products), synthetic organic contaminants (SOCs, e.g. pesticides), and microbial contaminants (e.g. bacteria). As different wells can be subject to various contamination settings, separate scores are given for each type of contaminant.

In terms of total susceptibility, Main Well rated high for IOCs, and moderate for VOCs, SOCs, and microbial bacteria. System construction rated moderate and hydrologic sensitivity rated high for the well. Land use rated high for IOCs, VOCs, SOCs, and microbials (Table 1).

The largest influences upon overall scores were the number of sources (Figure 2 and Table 2) and amount of agricultural land within the delineation.

No SOCs, VOCs, or microbial bacteria have ever been detected in the well's tested water. Traces of the IOC nitrate have been detected in the well. Despite existing in a county with high nitrogen fertilizer use, high herbicide use, and high agricultural chemical use, nitrate has only been detected in concentrations less than 2.15 parts per million (ppm). The maximum contaminant level (MCL) for nitrate is 10 ppm. A priority area for the IOC nitrate and the SOC Atrazine exists within delineated area.

This assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

If the system should need to expand in the future, new well sites should be located in areas with as few

potential sources of contamination as possible, and the site should be reserved and protected for this specific use.

For the HK Contractors, drinking water protection activities should first focus on correcting any deficiencies outlined in the sanitary survey (an inspection conducted every five years with the purpose of determining the physical condition of a water system's components and its capacity). Actions should be taken to maintain a 50-foot radius circle around the wellhead clear of potential contaminants. Any contaminant spills within the delineation should be carefully monitored and dealt with. As much of the designated assessment areas are outside the direct jurisdiction of HK Contractors, collaboration and partnerships with state and local agencies should be established and are critical to success.

Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. A strong public education program should be a primary focus of any drinking water protection plan as the delineation contains some urban and residential land uses. Public education topics could include proper lawn and garden care practices, household hazardous waste disposal methods, proper care and maintenance of septic systems, and the importance of water conservation to name but a few. There are multiple resources available to help communities implement protection programs, including the Drinking Water Academy of the EPA. Drinking water protection activities for agriculture should be coordinated with the Idaho State Department of Agriculture, the Soil Conservation Commission, the local Soil and Water Conservation District, and the Natural Resources Conservation Service.

A community must incorporate a variety of strategies in order to develop a comprehensive drinking water protection plan, be they regulatory in nature (i.e. zoning, permitting) or non-regulatory in nature (i.e. good housekeeping, public education, specific best management practices). For assistance in developing protection strategies please contact the Idaho Falls Regional Office of the Department of Environmental Quality or the Idaho Rural Water Association.

SOURCE WATER ASSESSMENT FOR HK CONTRACTORS, IDAHO FALLS, IDAHO

Section 1. Introduction - Basis for Assessment

The following sections contain information necessary to understand how and why this assessment was conducted. **It is important to review this information to understand what the ranking of this assessment means.** Maps showing the delineated source water assessment area and the inventory of significant potential sources of contamination identified within that area are included. The list of significant potential contaminant source categories and their rankings used to develop the assessment also is included.

Background

Under the Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency (EPA) to assess every source of public drinking water for its relative susceptibility to contaminants regulated by the Safe Drinking Water Act. This assessment is based on a land use inventory of the delineated assessment area and sensitivity factors associated with the wells and aquifer characteristics.

Level of Accuracy and Purpose of the Assessment

The Idaho Department of Environmental Quality (DEQ) is required by the U.S. Environmental Protection Agency (EPA) to assess the over 2,900 public drinking water sources in Idaho for their relative susceptibility to contaminants regulated by the Safe Drinking Water Act. This assessment is based on a land use inventory of the delineated assessment area, sensitivity factors associated with the wells, and aquifer characteristics. All assessments for sources active prior to 1999 were completed by May of 2003. SWAs for sources activated post-1999 are being developed on a case-by-case basis. The resources and time available to accomplish assessments are limited. An in-depth, site-specific investigation of each significant potential source of contamination is not possible. **Therefore, this assessment should be used as a planning tool, taken into account with local knowledge and concerns, to develop and implement appropriate protection measures for this source. The results should not be used as an absolute measure of risk and they should not be used to undermine public confidence in the water system.**

The ultimate goal of the assessment is to provide data to local communities to develop a protection strategy for their drinking water supply system. The DEQ recognizes that pollution prevention activities generally require less time and money to implement than treatment of a public water supply system once it has been contaminated. DEQ encourages communities to balance resource protection with economic growth and development. The decision as to the amount and types of information necessary to develop a drinking water protection program should be determined by the local community based on its own needs and limitations. Wellhead or drinking water protection is one facet of a comprehensive growth plan, and it can complement ongoing local planning efforts.

Section 2. Conducting the Assessment

General Description of the Source Water Quality

The HK Contractors (PWS #7100190) drinking water system consists of one ground water well, Main Well. The system serves approximately 50 people through 3 connections.

No SOCs, VOCs, or microbial bacteria have ever been detected in the well's tested water. Traces of the IOC nitrate have been detected in the well. Despite existing in a county with high nitrogen fertilizer use, high herbicide use, and high agricultural chemical use, nitrate has only been detected in concentrations less than 2.15 ppm. The MCL for nitrate is 10 ppm. A priority area for the IOC nitrate and the SOC Atrazine exists within delineated area.

Defining the Zones of Contribution – Delineation

The delineation process establishes the physical area around a well that will become the focal point of the assessment. The process includes mapping the boundaries of the zone of contribution into time-of-travel (TOT) zones (zones indicating the number of years necessary for a particle of water to reach a well) for water in the aquifer. DEQ performed the delineation using a computer model approved by the EPA in determining the 3-year (Zone 1B), 6-year (Zone 2), and 10-year (Zone 3) TOT for water associated with the Snake River Plain aquifer in the vicinity of the HK Contractors. The computer model used site-specific data from a variety of sources including local area well logs, and hydrogeologic reports (detailed below).

Hydrogeologic Conceptual Model

The capture zones for the source wells were modeled using the WhAEM Model 2000, version 1.0.4. The model was run by inputting hydrogeologic data estimated from well logs, topographic maps, geologic maps, and previous studies conducted in the area. Boundary conditions and initial aquifer property estimates were inputted into the model and then ran over a series of simulations. Parameters were adjusted in these simulations until a “best fit” approximation was achieved.

Boundary conditions inputted into the model were based on previous modeling efforts conducted in this area. The regional aquifer flowing through this area has been modeled previously, and parameters used in the previous model were incorporated into this model. The boundaries incorporated from the previous model include the constant head boundaries. Other boundaries used in the previous model to represent losing/gaining stream segments were not included into this model.

To simulate the general ground water flow direction of the regional system, constant head boundaries were placed on the northern and southern portions of the study area. The head values assigned to these boundaries were 4900 feet amsl along the northern extent and 4490 to the south, generating a southwestern flow direction.

A boundary condition not incorporated into this model was the constant flux/head boundary placed on the Snake River. Due to the depths of the wells and the water levels within the wells, the Snake River does not appear to be in direct hydraulic connection with the ground water. Therefore, the Snake River was not included in the model as a boundary condition.

The presence of this boundary was investigated through the modeling process, but due to unrealistic

capture zone delineations, the boundary was not incorporated into the “best fit” scenario of the model.

Two no flow boundaries incorporated into this model were placed to simulate the geologic boundaries in the area. Silica rich volcanic units that border the ESRP basalt flows to the east were simulated as constant flux recharge boundaries in previous models. To eliminate near-field interference associated with these flux boundaries and represent realistic capture zones, the geologic contacts were modeled as no flow boundaries.

Finally, a no-flow boundary was arbitrarily placed around the study area to define the extent of the model. The presence of this boundary limits the area required to be calculated by the model.

Once the boundary conditions and aquifer parameters were inputted into the model, the model was run over a series of simulations until a “best fit” scenario was achieved. The “best fit” scenario was defined by the closeness of test point matches. The test points are wells in the area completed in the same aquifer. Water levels taken from the well logs of these test points are compared to the head values predicted by the model. Model parameters are adjusted until the calculated values best match the measured values, resulting in the “best fit” scenario. The parameters entered into the model for the “best fit” scenario are:

Aquifer base elevation (ft amsl):	4200
Aquifer thickness (ft):	60
Hydraulic conductivity (ft/day):	1350
Recharge (ft/day):	0.0035
Porosity:	0.15

The aquifer base elevation, thickness, recharge, and porosity were all estimated from the previous model ran in this area (WGI, 2001). The hydraulic conductivity was adjusted until the best test point match was achieved. The hydraulic conductivity for the basalt aquifer ranges from 25 to 1700 ft/day (WGI, 2001). Extreme ranges of hydraulic conductivity (50 to 1700 ft/day) were entered into the model to determine the best approximation for these particular wells. Based on the test point matches, the hydraulic conductivity value that created the best test point match was 1350 ft/day.

The range in error associated with the test point match can be attributed to the estimating procedure involved in locating and assigned head values to the test points. The head values for the test points were taken from the well logs and approximated using a topographic map. The topographic map was used to estimate locations and elevations of the wells, resulting in potential measurement error. Therefore, test point matches within +/- 50 feet are considered adequate.

The pumping rates entered into the model for the source wells was 80 gallons per minute (gpm). The reported pumping rate for the wells was 55 gpm. The increase in modeled pumping rates is done as a factor of safety. This increased pumping rate incorporates any potential measurement errors in the reported rate as well as considers the potential of the system to increase production in the future.

The delineated area for the HK Contractors well is a northeast trending sector approximately 49 miles long which widens to approximately 5 miles at its most distant point from the well. The actual data used in determining the source water assessment delineation area is available from DEQ upon request.

Identifying Potential Sources of Contamination

A potential source of contamination is defined as any facility or activity that stores, uses, or produces, as a product or by-product, the contaminants regulated under the Safe Drinking Water Act and has a sufficient likelihood of releasing such contaminants at levels that could pose a concern relative to drinking water sources. The goal of the inventory process is to locate and describe those facilities, land uses, and environmental conditions that are potential sources of groundwater contamination. The locations of potential sources of contamination within the delineation areas were obtained by field surveys conducted by DEQ and from available databases.

Land use within the area surrounding the HK Contractors well is predominately irrigated agriculture, however the delineation encompasses a significant amount of urban activity as well.

It is important to understand that a release may never occur from a potential source of contamination provided they are using best management practices. Many potential sources of contamination are regulated at the federal level, state level, or both to reduce the risk of release. Therefore, when a business, facility, or property is identified as a potential contaminant source, this should not be interpreted to mean that this business, facility, or property is in violation of any local, state, or federal environmental law or regulation. What it does mean is that the potential for contamination exists due to the nature of the business, industry, or operation. There are a number of methods that water systems

can use to work cooperatively with potential sources of contamination, including educational visits and inspections of stored materials. Many owners of such facilities may not even be aware that they are located near a public water supply well.

Contaminant Source Inventory Process

A two-phased contaminant inventory of the study area was conducted in April and May 2004. The first phase involved identifying and documenting potential contaminant sources within the HK Contractors source water assessment area (Figure 2) through the use of computer databases and Geographic Information System (GIS) maps developed by DEQ. The second, or enhanced, phase of the contaminant inventory involved contacting the operator to identify and add any additional potential sources in the delineated areas.

The delineated source water area for the well (Figure 2) has 612 potential contaminant sources (Appendix B).

Section 3. Susceptibility Analyses

The well's susceptibility to contamination was ranked as high, moderate, or low risk according to the following considerations: hydrologic characteristics, physical integrity of the well, land use characteristics, and potentially significant contaminant sources. The susceptibility rankings are specific to a particular potential contaminant or category of contaminants. Therefore, a high susceptibility rating relative to one potential contaminant does not mean that the water system is at the same risk for all other potential contaminants. The relative ranking that is derived for each well is a qualitative, screening-level step that, in many cases, uses generalized assumptions and best professional judgement. Appendix A contains the susceptibility analysis worksheet. The following summaries describe the rationale for the susceptibility ranking.

Hydrologic Sensitivity

The hydrologic sensitivity of a well is dependent upon four factors: the surface soil composition, the material in the vadose zone (between the land surface and the water table), the depth to first ground water, and the presence of a 50-foot thick fine-grained zone (aquitard) above the producing zone of the well. Slowly draining soils such as silt and clay typically are more protective of ground water than coarse-grained soils such as sand and gravel. Similarly, fine-grained sediments in the subsurface and a water depth of more than 300 feet protect the ground water from contamination.

The HK Contractors wells rated high for hydrologic sensitivity. The Natural Resource Conservation Service characterized areas soils as moderately- to well-drained, a setting which allows for surface-related potential contaminants to have a higher vertical mobility and be less protective of ground water. In addition, the vadose zone is composed of predominantly permeable units, the depth to first water is less than 300 feet below ground surface (bgs), and no aquitard is present above the producing zone of either well.

Well Construction

Well construction directly affects the ability of the well to protect the aquifer from contaminants. System construction scores are reduced when information shows that potential contaminants will have a more difficult time reaching the intake of the well. Lower scores imply a system is less vulnerable to contamination. For example, if the well casing and annular seal both extend into a low permeability unit, then the possibility of contamination is reduced and the system construction score goes down. If the highest production interval is more than 100 feet below the water table, then the system is considered to have better buffering capacity. If the wellhead and surface seal are maintained to standards, as outlined in sanitary surveys, then contamination down the well bore is less likely. If the well is protected from surface flooding and is outside the 100-year floodplain, then contamination from surface events is reduced.

The Main Well rated moderate for system construction. It was drilled to a depth of 280 feet in November of 2000. The well was completed with a 150-foot surface seal into "firm gray basalt". The well was constructed out of 8-inch diameter (0.250 inches thick) steel casing to a depth of 150 feet, and is uncased below that depth. The well is equipped with a submersible pump. The rated capacity for this well is 55 gpm, and at the time of development, the static water level in this well was 92 feet bgs.

The well is located outside of the 100-year floodplain, and according to the well log, the casing and annular seal extend into a low permeability unit. The highest production is not more than 100 feet below the static water depth. According to the 2001 Sanitary Survey, the wellhead is adequate and maintained.

Current PWS well construction standards can be more stringent than when a well(s) was constructed. The Idaho Department of Water Resources *Well Construction Standards Rules* (1993) require all PWSs to follow DEQ standards as well. IDAPA 58.01.08.550 requires that PWSs follow the *Recommended Standards for Water Works* (1997) during construction. Some of the regulations deal with screening requirements, aquifer pump tests, use of a down-turned casing vent, and thickness of casing. Table 1 of the *Recommended Standards for Water Works* (1997) lists the required steel casing thickness for various diameter wells. Eight-inch diameter wells require a casing thickness of 0.322-inches. Because the well's construction does not meet all current standards, the well was assessed an additional system construction point.

Potential Contaminant Sources and Land Use

Land use for Main Well rated high for IOC, VOCs, SOC, and for microbials. The high percentage of irrigated agricultural land within the delineation, and its location within a county of high fertilizer use, high herbicide use, and high agricultural chemical use contributed the highest amount to the ratings. In addition to the 612 potential sources identified in DEQ databases, Highways 91 and 33, the Snake and Falls Rivers, Willow Creek, and Union Pacific Railroad, factored into the scoring.

Final Susceptibility Ranking

A detection above a drinking water standard MCL, any detection of a VOC or SOC, or a detection of total coliform bacteria or fecal coliform bacteria at the wellhead will automatically give a high susceptibility rating to a well despite the land use of the area because a pathway for contamination already exists. Additionally, potential contaminant sources within 50 feet of a wellhead will automatically lead to a high susceptibility rating. Hydrologic sensitivity and system construction scores are heavily weighted in the final scores. Having multiple potential contaminant sources in the 0 to 3-year time of travel zone (Zone 1B) contribute greatly to the overall ranking. In this case, the well had no automatic ratings.

Table 1. Summary of HK Contractors Susceptibility Evaluation

Table 4. Summary of RFR Contractors Susceptibility Evaluation										
Well	Susceptibility Scores ¹									
	Hydrologic Sensitivity	Contaminant Inventory				System Construction	Final Susceptibility Ranking			
		IOC	VOC	SOC	Microbials		IOC	VOC	SOC	Microbials
Main Well	H	H	H	H	H	M	H	M	M	M

¹H = High Susceptibility, M = Moderate Susceptibility, L = Low Susceptibility,

IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

Susceptibility Summary

In terms of total susceptibility, Main Well rated high for IOCs, and moderate for VOCs, SOC, and microbial bacteria. System construction rated moderate and hydrologic sensitivity rated high for the well. Land use rated high for IOCs, VOCs, SOC, and microbials (Table 1).

No SOC, VOC, or microbial bacteria have ever been detected in the well's tested water. Traces of the IOC nitrate have been detected in the well. Despite existing in a county with high nitrogen fertilizer use, high herbicide use, and high agricultural chemical use, nitrate has only been detected in concentrations less than 2.15 ppm. The MCL for nitrate is 10 ppm. A priority area for the IOC nitrate and the SOC Atrazine exists within delineated area.

Section 4. Options for Drinking Water Protection

The susceptibility assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what the susceptibility ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

An effective drinking water protection program is tailored to the particular local drinking water protection area. A community with a fully developed drinking water protection program will incorporate many strategies. For HK Contractors, drinking water protection activities should first focus on correcting any deficiencies outlined in the sanitary survey. Actions should be taken to keep a 50-foot radius circle clear around the wellheads. Any spills within the delineation should be carefully monitored and dealt with. As much of the designated protection area is outside the direct jurisdiction HK Contractors, making collaboration and partnerships with state and local agencies and industry groups are critical to the success of drinking water protection. The well should maintain sanitary standards regarding wellhead protection.

Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. A public education program should be a primary focus of any drinking water protection plan as the delineation is near residential land uses areas. Public education topics could include proper household hazardous waste disposal methods, proper care and maintenance of septic systems, and the importance of water conservation to name but a few.

There are multiple resources available to help communities implement protection programs, including

the Drinking Water Academy of the EPA.

A community must incorporate a variety of strategies in order to develop a comprehensive drinking water protection plan, be they regulatory in nature (i.e. zoning, permitting) or non-regulatory in nature (i.e. good housekeeping, public education, specific best management practices). For assistance in developing protection strategies please contact the Idaho Falls Regional Office of the DEQ or the Idaho Rural Water Association.

Assistance

Public water suppliers and others may call the following DEQ offices with questions about this assessment and to request assistance with developing and implementing a local protection plan. In addition, draft protection plans may be submitted to the DEQ office for preliminary review and comments.

Idaho Falls Regional DEQ Office (208) 528-2650

State DEQ Office (208) 373-0502

Website: <http://www.state.id.us/deq>

Water suppliers serving fewer than 10,000 persons may contact Melinda Harper (mlharper@idahoruralwater.com), Idaho Rural Water Association, at 1-208-343-7001 for assistance with drinking water protection (formerly wellhead protection) strategies.

POTENTIAL CONTAMINANT INVENTORY

LIST OF ACRONYMS AND DEFINITIONS

AST (Aboveground Storage Tanks) – Sites with aboveground storage tanks.

Business Mailing List – This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

CERCLIS – This includes sites considered for listing under the **Comprehensive Environmental Response Compensation and Liability Act (CERCLA)**. CERCLA, more commonly known as ASuperfund, is designed to clean up hazardous waste sites that are on the national priority list (NPL).

Cyanide Site – DEQ permitted and known historical sites/facilities using cyanide.

Dairy – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few head to several thousand head of milking cows.

Deep Injection Well – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of stormwater runoff or agricultural field drainage.

Enhanced Inventory – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (DEQ) during the primary contaminant inventory.

Floodplain – This is a coverage of the 100year floodplains.

Group 1 Sites – These are sites that show elevated levels of contaminants and are not within the priority one areas.

Inorganic Priority Area – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

Landfill – Areas of open and closed municipal and non-municipal landfills.

LUST (Leaking Underground Storage Tank) – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

Mines and Quarries – Mines and quarries permitted through the Idaho Department of Lands.)

Nitrate Priority Area – Area where greater than 25% of

wells/springs show nitrate values above 5mg/l.

NPDES (National Pollutant Discharge Elimination System) – Sites with NPDES permits. The Clean Water Act requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

Organic Priority Areas – These are any areas where greater than 25 % of wells/springs show levels greater than 1% of the primary standard or other health standards.

Recharge Point – This includes active, proposed, and possible recharge sites on the Snake River Plain.

RICRIS – Site regulated under **Resource Conservation Recovery Act (RCRA)**. RCRA is commonly associated with the cradle to grave management approach for generation, storage, and disposal of hazardous wastes.

SARA Tier II (Superfund Amendments and Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

UST (Underground Storage Tank) – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

Wastewater Land Applications Sites – These are areas where the land application of municipal or industrial wastewater is permitted by DEQ.

Wellheads – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

NOTE: Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

Where possible, a list of potential contaminant sites unable to be located with geocoding will be provided to water systems to determine if the potential contaminant sources are located within the source water assessment area.

References Cited

- Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, 1997. "Recommended Standards for Water Works."
- Idaho Department of Environmental Quality, 1997. Design Standards for Public Drinking Water Systems. IDAPA 58.01.08.550.01.
- Idaho Department of Water Resources, 1993. Administrative Rules of the Idaho Water Resource Board: Well Construction Standards Rules. IDAPA 37.03.09.
- Idaho Division of Environmental Quality, 1999, Idaho Source Water Assessment Plan, October, 39 p.
- Idaho Division of Environmental Quality, 1997, Idaho Wellhead Protection Plan, Idaho Wellhead Protection Work Group, February.
- Idaho Department of Water Resources. Well Log for tag number 0024639
- Idaho Department of Water Resources. Well Log for tag number Woodrow Arrington, 1955
- Washington Group International (WGI), 2001. Source Area Delineation Report Upper Eastern Snake River Plain Hydrologic Province July 2001.
- Weatherbase, 2003. Online database of climate data of the state of Idaho. www.weatherbase.com.

Appendix A

HK Contractors
Susceptibility Analysis
Worksheet

The final scores for the susceptibility analysis were determined using the following formulas:

- 1) VOC/SOC/IOC Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.2)
- 2) Microbial Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.375)

Final Susceptibility Scoring:

0 - 5 Low Susceptibility

6 - 12 Moderate Susceptibility

≥ 13 High Susceptibility

Public Water System Name: HK Contractors

Public Water System Number: 7100190

Well Number: Main Well

Date: 5/24/2004

Person Conducting Assessment: Richard Lee

Hydrologic Sensitivity
Worksheet

		<u>Value</u>
Do the soils belong to drainage classes in the poorly drained through moderately well drained categories?	<input type="radio"/> Yes <input checked="" type="radio"/> No	2
Is the vadose zone composed predominantly of gravel, fractured rock; or is unknown?	<input type="radio"/> Yes <input checked="" type="radio"/> No	0
Is the depth to first groundwater greater than 300 feet?	<input type="radio"/> Yes <input checked="" type="radio"/> No	1
Is an aquitard present with silt/clay or sedimentary interbeds within basalt with greater than 50 feet cumulative thickness?	<input type="radio"/> Yes <input checked="" type="radio"/> No	2
Hydrologic Sensitivity Score =		5

Potential Contaminant Source/Land Use Worksheet								
Land Use/Zone								
IA					IOC Score	VOC Score	SOC Score	Microbial Score
Land Use (Pick the Predominant Land Type)	Irrigated Cropland ▼				2	2	2	2
Is Farm Chemical Use High or Unknown? (Answer No if (1) = Urban/Commercial)	<input checked="" type="radio"/> Yes <input type="radio"/> No				Complete Step 2a			
Indicate appropriate chemical category	<input checked="" type="checkbox"/> IOCs <input type="checkbox"/> VOCs <input checked="" type="checkbox"/> SOCs				2	0	2	0
Are IOC, VOC, SOC, Microbial or Radionuclide contaminant sources Present in Zone IA? <u>OR</u> Have SOC/VOC contaminants been detected in the well? <u>OR</u> have IOC contaminants been detected above MCL levels in the well? If Yes, please check the appropriate chemical	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="checkbox"/> IOCs <input type="checkbox"/> VOCs <input type="checkbox"/> SOCs <input type="checkbox"/> Microbials							
			Land Use Subtotal		4	2	4	2

Zone IB								
Contaminant Sources Present in Zone IB?	<input checked="" type="radio"/> Yes	<input type="radio"/> No						
					IOC Score	VOC Score	SOC Score	Microbial Score
Number of Sources in Zone IB in Each Category?		# IOC Sources	431		8	8	8	8
(List sources by Category up to a Maximum of Four per Category)		# VOC Sources	509					
		# SOC Sources	510					
		# Microbial Sources	61					
Are there Sources of Class II or III Leachable Contaminants in Zone IB?	<input checked="" type="radio"/> Yes	<input type="radio"/> No			IOC Score	VOC Score	SOC Score	Microbial Score
(List Sources up to a Maximum of Four per Category)		# IOC Sources	4		4	4	4	0
		# VOC Sources	4					
		# SOC Sources	4					
Does a Group 1 Priority Area Intercept or Group 1 Priority Site Fall Within Zone IB?	<input checked="" type="radio"/> Yes	<input type="radio"/> No			2	0	2	0
	<input checked="" type="checkbox"/> IOCs <input type="checkbox"/> VOCs <input checked="" type="checkbox"/> SOCs <input type="checkbox"/> Microbials							
Pick the Best Description of the Amount and Type of Agricultural Land in Zone IB.	Greater Than 50 % Irrigated Agricultural Land ▼				4	4	4	4
	Zone IB Subtotal				18	16	18	12

					IOC Score	VOC Score	SOC Score	Microbial Score
Community and Non-Community, Non-Transient System Contaminant Source/Land Use Score					30	26	30	14
Final Community/NC-NT System Ranking					IOC Score = High Contaminant/Land Use Score (21 to 30 points)			
					VOC Score = High Contaminant/Land Use Score (21 to 30 points)			
					SOC Score = High Contaminant/Land Use Score (21 to 30 points)			
					Microbial Score = Moderate Contaminant/Land Use Score (11 to 20 points)			

Source Construction Worksheet

Well Drill Date

Input Date **November 30, 2000**

Well Drillers Log Available?

☒ Yes ☐ No

Sanitary Survey Available? If Yes, for what year?

☒ Yes ☐ No

Year

2001

Are current IDWR well construction standards being met?

☐ Yes ☒ No

Value

1

Is the wellhead and surface seal maintained in good condition?

☒ Yes ☐ No

0

Do the casing and annular seal extend to a low permeability unit?

☒ Yes ☐ No

0

Is the highest production interval of the well at least 100 feet below the static water level?

☐ Yes ☒ No

1

Is the well located outside the 100 year floodplain and is it protected from surface runoff?

☒ Yes ☐ No

0

Source Construction Score = 2

SWA Susceptibility Rating Sheet

Zone IA Susceptibility Rating

Warning: Due to specific conditions found in Zone IA this well has been assigned a High overall susceptibility for: No Contaminant Categories

*This rating is based on: (1)The presence of contaminant sources in Zone IA or (2)The detection of specific SOC/VOC chemicals in the well or (3)The detection of specific IOC chemicals above MCL levels in the well.
Public Water Systems may petition IDEQ to revise susceptibility rating based on elimination of contaminant sources or other site-specific factors.*

Community and Noncommunity- Nontransient Sources	<u>IOC Score</u>	<u>SOC Score</u>	<u>VOC Score</u>
Hydrologic Sensitivity Score =	5	5	5
Potential Contaminant Source/Land Use Score X 0.20 =	6	6	5
Source Construction Score =	2	2	2
Total	13	13	12
FINAL WELL RANKING			
IOC Ranking is High (13 to 18 points)			
SOC Ranking is High (13 to 18 points)			
VOC Ranking is High (13 to 18 points)			

Transient Sources	<u>IOC Score</u>	<u>SOC Score</u>	<u>VOC Score</u>
Hydrologic Sensitivity Score =	5	5	5
Potential Contaminant Source/Land Use Score X 0.27 =	6	6	5
Source Construction Score =	2	2	2
Total	13	13	12
FINAL WELL RANKING			
IOC Ranking is High (13 to 18 points)			
SOC Ranking is Moderate (6 to 12 points)			
VOC Ranking is Moderate (6 to 12 points)			

Microbial Susceptability Rating	<u>Score</u>
Hydrologic Sensitivity Score =	5
Potential Contaminant Source/Land Use Score X 0.375 =	5
Source Construction Score =	2
Total	12
FINAL WELL RANKING	
Microbial Ranking is Moderate (6 to 12 points)	

Appendix B

Table 2 Potential Contaminant Inventory

Table 2. HK Contractors, Main Well, Potential Contaminant Inventory

SITE	Source Description ¹	TOT ² ZONE	Source of Information	Potential Contaminants ³
1, 21	LUST Site, (Site Cleanup Completed , Impact: Groundwater), UST Site (Gas Station , Impact: Closed)	3 YR	Database Search	VOC, SOC
2, 82, 515	LUST Site, Site Cleanup Completed , Impact: Unknown, UST Site (Local Government , Impact: Open), RCRA Site	3 YR	Database Search	VOC, SOC
3, 20	UST Site, Commercial , Impact: Closed; LUST Site, Site Cleanup Completed , Impact: Unknown	3 YR	Database Search	VOC, SOC
4	LUST Site, Site Cleanup Completed , Impact: Unknown	3 YR	Database Search	VOC, SOC
5, 32	LUST Site, (Site Cleanup Completed , Impact: Unknown), UST Site (State Government , Impact: Closed)	3 YR	Database Search	VOC, SOC
6, 93, 562	UST Site, Gas Station , Impact: Open, SARA Site, LUST Site (Site Cleanup Completed , Impact: Unknown)	3 YR	Database Search	VOC, SOC
7, 113	UST Site, (Truck/Transporter , Impact: Closed), LUST Site (Site Cleanup Completed , Impact: Unknown)	3 YR	Database Search	VOC, SOC
8, 97	LUST Site, Site Cleanup Completed , Impact: Unknown, UST Site (Industrial , Impact: Closed)	3 YR	Database Search	VOC, SOC
9, 19	UST Site, Farm , Impact: Closed, LUST Site (Site Cleanup Completed , Impact: Unknown)	3 YR	Database Search	VOC, SOC
10, 579	SARA Site, Gasoline Service Stations, LUST Site (Site Cleanup Incomplete , Impact: Unknown)	3 YR	Database Search	VOC, SOC
, 17	UST Site, Gas Station , Impact: Open, LUST Site (Site Cleanup Incomplete , Impact: Unknown)	3 YR	Database Search	VOC, SOC
12, 84	LUST Site, Site Cleanup Completed , Impact: Unknown, UST Site (Contractor , Impact: Open)	3 YR	Database Search	VOC, SOC
13	UST Site, Contractor , Impact: Closed	3 YR	Database Search	VOC, SOC
14	UST Site, Other , Impact: Closed	3 YR	Database Search	VOC, SOC
15	UST Site, Gas Station , Impact: Open	3 YR	Database Search	VOC, SOC
16	UST Site, Federal Non-Military , Impact: Closed	3 YR	Database Search	VOC, SOC
18, 571, 587	UST Site, Gas Station , Impact: Closed, SARA Site (Petroleum & Petroleum Products Wholesalers), AST Site	3 YR	Database Search	VOC, SOC
22, 575	UST Site, Gas Station , Impact: Open, SARA Site	3 YR	Database Search	VOC, SOC

23, 567	UST Site, (Gas Station , Impact: Open), SARA Site	3 YR	Database Search VOC, SOC
24, 502	UST Site, Industrial , Impact: Closed, RCRA Site	3 YR	Database Search VOC, SOC
25	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
26	UST Site, Auto Dealership , Impact: Closed	3 YR	Database Search VOC, SOC
27	UST Site, Federal Military , Impact: Open	3 YR	Database Search VOC, SOC
28	UST Site, Contractor , Impact: Closed	3 YR	Database Search VOC, SOC
29	UST Site, Commercial , Impact: Closed	3 YR	Database Search VOC, SOC
30	UST Site, Truck/Transporter , Impact: Closed	3 YR	Database Search VOC, SOC
31	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
33	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
34	UST Site, Other , Impact: Closed	3 YR	Database Search VOC, SOC
35, 186	Golf Courses-Public, UST Site (Local Government , Impact: Closed)	3 YR	Database Search IOC, VOC, SOC
36	UST Site, Local Government , Impact: Closed	3 YR	Database Search VOC, SOC
37	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
38	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
39	UST Site, Petroleum Distributor , Impact: Closed	3 YR	Database Search VOC, SOC
40	UST Site, Not Listed , Impact: Open	3 YR	Database Search VOC, SOC
41	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
42	UST Site, Auto Dealership , Impact: Open	3 YR	Database Search VOC, SOC
43, 240	Irrigation Systems & Equipment, UST Site (Truck/Transporter , Impact: Closed)	3 YR	Database Search VOC, SOC
44, 106, 563	UST Site, (Truck/Transporter , Impact: Closed), SARA Site (Trucking, except local)	3 YR	Database Search VOC, SOC
45	UST Site, Contractor , Impact: Closed	3 YR	Database Search VOC, SOC
46	UST Site, State Government , Impact: Closed	3 YR	Database Search VOC, SOC
47	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
48	UST Site, Not Listed , Impact: Open	3 YR	Database Search VOC, SOC
49	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
50	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
51	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC

52	UST Site, Not Listed , Impact: Open	3 YR	Database Search VOC, SOC
53	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
54	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
55, 262	Bottlers, UST Site (Commercial , Impact: Closed)	3 YR	Database Search IOC, VOC, SOC
56, 591	UST Site, Gas Station , Impact: Open, AST Site	3 YR	Database Search VOC, SOC
57	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
58	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
59	UST Site, Not Listed , Impact: Open	3 YR	Database Search VOC, SOC
60, 284	Steel Fabricators, UST Site (Not Listed , Impact: Close)	3 YR	Database Search IOC, VOC, SOC
61	UST Site, Other , Impact: Closed	3 YR	Database Search VOC, SOC
62	UST Site, Not Listed , Impact: Open	3 YR	Database Search VOC, SOC
63	UST Site, Federal Non-Military , Impact: Closed	3 YR	Database Search VOC, SOC
64	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
65	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
66	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
67	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
68	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
69	UST Site, Not Listed , Impact: Open	3 YR	Database Search VOC, SOC
70	UST Site, Not Listed , Impact: Closed	3 YR	Database Search VOC, SOC
71	UST Site, Commercial , Impact: Closed	3 YR	Database Search VOC, SOC
72	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
73	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
74	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
75, 219, 578, 580, 588, 589	Fertilizers (Wholesale), AST Site, UST Site (Industrial , Impact: Closed), SARA Site	3 YR	Database Search IOC, SOC, Microbials
76, 414	Tire-Dealers-Retail, UST Site (Commercial , Impact: Closed)	3 YR	Database Search IOC, VOC, SOC
77	UST Site, Local Government , Impact: Closed	3 YR	Database Search VOC, SOC
78	UST Site, Local Government , Impact: Closed	3 YR	Database Search VOC, SOC
79	UST Site, Federal Non-Military , Impact: Open	3 YR	Database Search VOC, SOC

80	UST Site, Other , Impact: Closed	3 YR	Database Search VOC, SOC
81	UST Site, Other , Impact: Closed	3 YR	Database Search VOC, SOC
83	UST Site, Other , Impact: Closed	3 YR	Database Search VOC, SOC
85, 561	SARA, (Bottled and Can Soft Drink, Bottled Water), UST Site (Other , Impact: Closed)	3 YR	Database Search IOC, VOC, SOC
86	UST Site, Other , Impact: Closed	3 YR	Database Search VOC, SOC
87, 504, 577	UST Site, Other , Impact: Closed, SARA Site, RCRA Site	3 YR	Database Search VOC, SOC
88, 505	UST Site, Other , Impact: Closed, RCRA Site	3 YR	Database Search VOC, SOC
89, 506	UST Site, Other , Impact: Closed, RCRA Site	3 YR	Database Search VOC, SOC
90	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
91	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
92	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
94	UST Site, Other , Impact: Open	3 YR	Database Search VOC, SOC
95	UST Site, Contractor , Impact: Closed	3 YR	Database Search VOC, SOC
96	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
98	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
99, 257	Automobile Parts & Supplies-Retail, UST Site (Gas Station , Impact: Closed)	3 YR	Database Search IOC, VOC, SOC
100	UST Site, Commercial , Impact: Open	3 YR	Database Search VOC, SOC
101, 226	Service Stations-Gasoline & Oil, UST Site (Gas Station , Impact: Open)	3 YR	Database Search VOC, SOC
102	UST Site, State Government , Impact: Closed	3 YR	Database Search VOC, SOC
103, 514	UST Site, Auto Dealership , Impact: Closed, RCRA Site	3 YR	Database Search VOC, SOC
104	UST Site, Auto Dealership , Impact: Closed	3 YR	Database Search VOC, SOC
105	UST Site, Local Government , Impact: Closed	3 YR	Database Search VOC, SOC
107	UST Site, Commercial , Impact: Closed	3 YR	Database Search VOC, SOC
108	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
109	UST Site, Gas Station , Impact: Closed	3 YR	Database Search VOC, SOC
110	UST Site, Gas Station , Impact: Open	3 YR	Database Search VOC, SOC
111, 221	Recreational Vehicles; UST Site (Auto Dealership , Impact: Closed)	3 YR	Database Search IOC, VOC, SOC
112	UST Site, Commercial , Impact: Closed	3 YR	Database Search VOC, SOC
114, 385	General Contractors, UST Site (Contractor , Impact: Open)	3 YR	Database Search IOC, VOC, SOC
115	Dairy, 1148 Cows	3 YR	Database Search IOC, SOC, Microbials
116	Dairy, 896 Cows	3 YR	Database Search IOC, SOC, Microbials

117	Dairy, 607 Cows	3 YR	Database Search	IOC, SOC, Microbials
118	Dairy, 875 Cows	3 YR	Database Search	IOC, SOC, Microbials
119	Dairy, 886 Cows	3 YR	Database Search	IOC, SOC, Microbials
120	Potatoes-Processed	3 YR	Database Search	IOC, VOC, Microbials
121	Laundry Center	3 YR	Database Search	IOC, VOC, SOC, Microbials
122	Welding	3 YR	Database Search	IOC, VOC, SOC
123	Storage-Household & Commercial	3 YR	Database Search	IOC, VOC, SOC, Microbials
124	Signs (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
125	Automobile Radiator-Repairing	3 YR	Database Search	IOC, VOC, SOC
126	Tools-Pneumatic (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
127	Crane Service	3 YR	Database Search	IOC, VOC, SOC
128	Hardware-Retail	3 YR	Database Search	IOC, VOC, SOC
129	Truck-Dealers-Used	3 YR	Database Search	IOC, VOC, SOC
130	Farm Equipment (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
131	Rental Service-Stores & Yards	3 YR	Database Search	IOC, VOC, SOC
132	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
133	Engines-Rebuilding & Repairing	3 YR	Database Search	IOC, VOC, SOC
134	Potato Harvesting/Planting Equip	3 YR	Database Search	IOC, VOC, Microbials
135	Farm Equipment (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
136	Machine Shops	3 YR	Database Search	IOC, VOC, SOC
137	Trucking-Motor Freight	3 YR	Database Search	IOC, VOC, SOC
138	Fire Damage Restoration	3 YR	Database Search	IOC, VOC, SOC
139	Lawn Maintenance	3 YR	Database Search	IOC, SOC, Microbials
140	Veterinarians	3 YR	Database Search	IOC, SOC, Microbials
141	Tree Service	3 YR	Database Search	IOC, VOC, SOC
142	Bicycles-Dealers	3 YR	Database Search	IOC, VOC, SOC
143	Truck-Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
144	Pharmaceutical Products-Wholesale	3 YR	Database Search	IOC, VOC, SOC
145	Contractors-Equipment/Supplies	3 YR	Database Search	IOC, VOC, SOC
146	Automobile Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
147	Satellite Equipment & Systems	3 YR	Database Search	IOC, VOC, SOC
148	Plumbing Drain & Sewer Cleaning	3 YR	Database Search	IOC, VOC, SOC, Microbials
149	General Contractors	3 YR	Database Search	IOC, VOC, SOC
150	Hardware-Wholesale	3 YR	Database Search	IOC, VOC, SOC
151	Mufflers & Exhaust Systems-Engine	3 YR	Database Search	IOC, VOC, SOC
152	Parking Area Maintenance & Marking	3 YR	Database Search	VOC
153	Automobile Detail & Clean-Up Service	3 YR	Database Search	IOC, VOC, SOC
154	Automobile Body Shop Equipment/Supplies	3 YR	Database Search	IOC, VOC, SOC
155	Plating (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
156	Automobile Customizing	3 YR	Database Search	IOC, VOC, SOC
157	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
158	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
159	Springs-Automotive-Sales & Service	3 YR	Database Search	IOC, VOC, SOC
160	Farm Supplies (Wholesale)	3 YR	Database Search	IOC, VOC, SOC, Microbials
161	Bags-Plastic (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
162	Sausages/Other Prepared Meat Production	3 YR	Database Search	IOC, VOC, Microbials

163	Home Improvements	3 YR	Database Search	IOC, VOC, SOC
164	Paint-Retail	3 YR	Database Search	IOC, VOC, SOC
165	Carpet & Rug Cleaners	3 YR	Database Search	IOC, VOC, SOC, Microbials
166	Tire-Dealers-Retail	3 YR	Database Search	IOC, VOC, SOC
167	Bicycles-Dealers	3 YR	Database Search	IOC, VOC, SOC
168	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
169	General Contractors	3 YR	Database Search	IOC, VOC, SOC
170	Outboard Motors	3 YR	Database Search	IOC, VOC, SOC
171	Cabinets-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
172	Service Stations-Gasoline & Oil	3 YR	Database Search	VOC, SOC
173	General Contractors	3 YR	Database Search	IOC, VOC, SOC
174, 523	Recycling Centers (Wholesale), RCRA Site	3 YR	Database Search	VOC
175	Water Works Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
176	Brake Service	3 YR	Database Search	IOC, VOC, SOC
177	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
178	Drapery & Curtain Cleaners	3 YR	Database Search	VOC
179	Automobile Parts & Supplies-Retail	3 YR	Database Search	IOC, VOC, SOC
180	Remodeling/Repairing Bldg Contract	3 YR	Database Search	IOC, VOC, SOC
181	General Contractors	3 YR	Database Search	IOC, VOC, SOC
182	Gas Companies	3 YR	Database Search	VOC, SOC
183	Delivery Service	3 YR	Database Search	IOC, VOC, SOC
184	Barbers Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
185	Photo Finishing-Retail	3 YR	Database Search	IOC, VOC
187	Home Builders	3 YR	Database Search	IOC, VOC, SOC
188, 566	Farm Equipment (Wholesale), SARA Site	3 YR	Database Search	IOC, VOC, SOC
189	Plastics-High Pressure Laminates	3 YR	Database Search	IOC, VOC, SOC
190	Printers	3 YR	Database Search	IOC, VOC
191	Newspapers (Publishers)	3 YR	Database Search	IOC, VOC
192	Boat Repairing	3 YR	Database Search	IOC, VOC, SOC
193	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
194	Automobile Radiator-Repairing	3 YR	Database Search	IOC, VOC, SOC
195	Automobile Parts-Used & Rebuilt	3 YR	Database Search	IOC, VOC, SOC
196	Motorcycles & Motor Scooters-Dealer	3 YR	Database Search	IOC, VOC, SOC
197	Seed Cleaning	3 YR	Database Search	IOC, VOC, Microbials
198	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
199	Funeral Directors	3 YR	Database Search	IOC, SOC
200	Funeral Directors	3 YR	Database Search	IOC, SOC
201	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
202	General Contractors	3 YR	Database Search	IOC, VOC, SOC
203	Automobile Restoration-Antique & Classic	3 YR	Database Search	IOC, VOC, SOC
204	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
205	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
206	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
207	Wheel Alignment-Frame & Axle Service	3 YR	Database Search	IOC, VOC, SOC
208	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
209	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
210	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
211	Newspapers (Publishers)	3 YR	Database Search	IOC, VOC

212	Logging	3 YR	Database Search	IOC, VOC, SOC
213	Boat Dealers	3 YR	Database Search	IOC, VOC, SOC
214	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
215	Car Washing & Polishing	3 YR	Database Search	IOC, VOC, SOC
216	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
217	Automobile Parts & Supplies-Retail	3 YR	Database Search	IOC, VOC, SOC
218	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
220	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
222	Lawn Mowers	3 YR	Database Search	IOC, VOC, SOC
223	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
224	Automobile Parts-Used & Rebuilt	3 YR	Database Search	VOC
225	Store Fronts	3 YR	Database Search	IOC, VOC, SOC
227	Landscape Contractors	3 YR	Database Search	IOC, SOC, Microbials
228	Automobile Body-Repairing & Paint	3 YR	Database Search	IOC, VOC, SOC
229	Hardware-Wholesale	3 YR	Database Search	IOC, VOC, SOC
230	Boat Dealers	3 YR	Database Search	IOC, VOC, SOC
231	Mold Makers	3 YR	Database Search	IOC, VOC, SOC
232	Printers	3 YR	Database Search	IOC, VOC, SOC
233	Trucking-Liquid & Dry Bulk	3 YR	Database Search	IOC, VOC, SOC
234	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
235	Farms	3 YR	Database Search	IOC, SOC, Microbials
236	Relays & Industrial Controls	3 YR	Database Search	IOC, VOC, SOC
237	Trailers-Camping & Travel	3 YR	Database Search	IOC, VOC, SOC
238	Snow Removal Equipment-Retail	3 YR	Database Search	IOC, VOC, SOC
239	General Contractors	3 YR	Database Search	IOC, VOC, SOC
241	Industrial Measuring/Control Instruments	3 YR	Database Search	IOC, VOC, SOC
242	Rental Service-Stores & Yards	3 YR	Database Search	IOC, VOC, SOC
243	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
244	Four Wheel Drive-Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
245	Landscape Contractors	3 YR	Database Search	IOC, SOC, Microbials
246	Storage-Household & Commercial	3 YR	Database Search	IOC, VOC, SOC
247	Automobile Parts & Supplies-Retail	3 YR	Database Search	IOC, VOC, SOC
248	Bicycles-Dealers	3 YR	Database Search	IOC, VOC, SOC
249	General Contractors	3 YR	Database Search	IOC, VOC, SOC
250	Brick-Clay Common & Face-Manufacture	3 YR	Database Search	IOC, VOC, SOC
251	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
252	Recreational Vehicles	3 YR	Database Search	IOC, VOC, SOC
253	Automobile Dealers-New Cars	3 YR	Database Search	IOC, VOC, SOC
254	Automobile Parts-Used & Rebuilt	3 YR	Database Search	IOC, VOC, SOC
255	Florists-Supplies (Wholesale)	3 YR	Database Search	IOC, SOC, Microbials
256, 526	Electric Motors-Dlrs/Repairing, RCRA Site	3 YR	Database Search	IOC, VOC
258	Truck Equipment & Parts-Used	3 YR	Database Search	IOC, VOC, SOC
259	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
260	Pet Services	3 YR	Database Search	IOC, SOC, Microbials
261	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
263	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
264	Signs (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
265	Welding	3 YR	Database Search	IOC, VOC, SOC
266	Color Sprtns-Offset Photo Engrave	3 YR	Database Search	IOC, VOC, SOC
267	Electric Equipment & Supplies-	3 YR	Database Search	IOC, VOC

	Wholesale		
268	Culverts	3 YR	Database Search IOC, VOC, SOC
269	Automobile Body-Repairing & Painting	3 YR	Database Search IOC, VOC, SOC
270	Automobile Dealers-Used Cars	3 YR	Database Search IOC, VOC, SOC
271	Shelving-Manufacturers	3 YR	Database Search IOC, VOC, SOC
272	Automobile Repairing & Service	3 YR	Database Search IOC, VOC, SOC
273	Automobile Repairing & Service	3 YR	Database Search IOC, VOC, SOC
274	Electric Equipment & Supplies-Wholesale	3 YR	Database Search IOC, VOC
275	Mechanical Contractors	3 YR	Database Search IOC, VOC
276	Lawn Mowers-Sharpening & Repairing	3 YR	Database Search IOC, VOC, SOC
277	Automobile Body-Repairing & Painting	3 YR	Database Search IOC, VOC, SOC
278	Snow Removal Equipment-Retail	3 YR	Database Search IOC, VOC, SOC
279	Decals (Manufacturers)	3 YR	Database Search IOC, VOC, SOC
280	Janitors Supplies (Wholesale)	3 YR	Database Search IOC, VOC, SOC, Microbials
281	Laboratories-Dental	3 YR	Database Search IOC, VOC, SOC, Microbials
282	Motorcycles & Motor Scooters-Dealer	3 YR	Database Search IOC, VOC, SOC
283	Fire Damage Restoration	3 YR	Database Search IOC, VOC, SOC
285	Converted Paper/Paperbrd Prod NEC	3 YR	Database Search IOC, VOC, SOC
286	Dome Structures	3 YR	Database Search IOC, VOC, SOC
287	Goldsmiths & Silversmiths	3 YR	Database Search IOC, VOC, SOC
288	Fuel Injection Equipment (Repairing)	3 YR	Database Search IOC, VOC, SOC
289	Printers	3 YR	Database Search IOC, VOC
290	Landscape Contractors	3 YR	Database Search IOC, VOC, SOC, Microbials
291	Motorcycles & Motor Scooters	3 YR	Database Search IOC, VOC, SOC
292	Recreational Vehicles-Repairing	3 YR	Database Search IOC, VOC, SOC
293	Powder Coatings (Manufacturers)	3 YR	Database Search IOC, VOC, SOC
294	Paint-Retail	3 YR	Database Search IOC, VOC, SOC
295	Taxicabs	3 YR	Database Search VOC, SOC
296	Water Treatment Equip Svc & Supls	3 YR	Database Search IOC, VOC, SOC
297	Machine Shops	3 YR	Database Search IOC, VOC, SOC
298	Nurserymen	3 YR	Database Search IOC, SOC, Microbials
299	Electric Equipment & Supplies-Wholesale	3 YR	Database Search IOC, VOC
300	Automobile Repairing & Service	3 YR	Database Search IOC, VOC, SOC
301	Castings-Metals	3 YR	Database Search IOC, VOC, SOC
302	Movers	3 YR	Database Search IOC, VOC, SOC
303	Automobile Renting & Leasing	3 YR	Database Search IOC, VOC, SOC
304	Automobile Body-Repairing & Painting	3 YR	Database Search IOC, VOC, SOC
305	Plants-Interior Design & Maintenance	3 YR	Database Search IOC, SOC, Microbials
306	Janitor Service	3 YR	Database Search IOC, VOC, SOC, Microbials
307	Feed-Wholesale	3 YR	Database Search IOC, SOC, Microbials
308	Plumbing Fixtures & Supplies-Wholesale	3 YR	Database Search IOC, VOC, SOC
309	Commercial Printing NEC	3 YR	Database Search IOC, VOC
310	Water & Sewage Companies-Utility	3 YR	Database Search IOC, VOC, SOC
311	Candy & Confectionery-Manufacturer	3 YR	Database Search IOC, Microbials
312	Automobile Seatcovers Tops & Upholstery	3 YR	Database Search IOC, VOC, SOC

313	Truck Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
314	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
315	Automobile Body-Repairing & Painting	3 YR	Database Search	IOC, VOC, SOC
316	Machine Tools (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
317	Campgrounds	3 YR	Database Search	IOC, VOC, SOC, Microbials
318	General Contractors	3 YR	Database Search	IOC, VOC, SOC
319, 568	Fertilizers (Wholesale), SARA Site	3 YR	Database Search	IOC, SOC, Microbials
320	Bicycles-Dealers	3 YR	Database Search	IOC, VOC, SOC
321	Signs (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
322	Automobile Dealers-New Cars	3 YR	Database Search	IOC, VOC, SOC
323	Bathtubs & Sinks-Repairing & Refinishing	3 YR	Database Search	IOC, VOC, SOC
324	Chemicals (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
325	Photographers-Portrait	3 YR	Database Search	IOC, VOC
326	Washers-Pressure	3 YR	Database Search	IOC, VOC, SOC
327	Paint-Retail	3 YR	Database Search	IOC, VOC, SOC
328	Alternators & Starters-Marine	3 YR	Database Search	IOC, VOC, SOC
329	Machine Shops	3 YR	Database Search	IOC, VOC, SOC
330	Tile-Ceramic-Contractors & Dealers	3 YR	Database Search	IOC, VOC, SOC
331, 332	Automobile Radiator-Repairing	3 YR	Database Search	IOC, VOC, SOC
333	Oils-Fuel (Wholesale)	3 YR	Database Search	VOC, SOC
334	Fire Departments	3 YR	Database Search	IOC, VOC, SOC
335	Fire Damage Restoration	3 YR	Database Search	IOC, VOC, SOC
336	Fire Departments	3 YR	Database Search	IOC, VOC, SOC
337	Fire Protection Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
338	Welding	3 YR	Database Search	IOC, VOC, SOC
339	Material Handling Equipment (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
340	Sun Rooms	3 YR	Database Search	IOC, SOC, Microbials
341	Photographic Equipment-Repairing	3 YR	Database Search	IOC, VOC
342	Tire-Dealers-Retail	3 YR	Database Search	IOC, VOC, SOC
343	Signs (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
344	Bags-Plastic (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
345	Paving Contractors	3 YR	Database Search	IOC, VOC, SOC
346	Potato Harvesting/Planting Equipment	3 YR	Database Search	IOC, SOC, Microbials
347	Building Contractors	3 YR	Database Search	IOC, VOC, SOC
348	Paint-Retail	3 YR	Database Search	IOC, VOC, SOC
349	Automobile Parts & Supplies-Retail	3 YR	Database Search	IOC, VOC, SOC
350	Foods-Frozen-Manufacturers	3 YR	Database Search	IOC, Microbials
351	Signs (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
352	Millwork (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
353	General Contractors	3 YR	Database Search	IOC, VOC, SOC
354	Storage-Household & Commercial	3 YR	Database Search	IOC, VOC, SOC
355	Wrecker Service	3 YR	Database Search	IOC, VOC, SOC
356	Storage-Household & Commercial	3 YR	Database Search	IOC, VOC, SOC
357	Roofing Contractors	3 YR	Database Search	IOC, VOC, SOC
358	Septic Tanks-Cleaning & Repairing	3 YR	Database Search	IOC, VOC, SOC, Microbials
359	Contractors-Equipment/Supplies	3 YR	Database Search	IOC, VOC, SOC
360	Photographers-Portrait	3 YR	Database Search	IOC, VOC
361	Concrete Contractors	3 YR	Database Search	IOC, VOC, SOC

362	Carpet & Rug Cleaners	3 YR	Database Search	IOC, VOC, SOC, Microbials
363	Janitor Service	3 YR	Database Search	IOC, VOC, SOC, Microbials
364	Laboratories-Dental	3 YR	Database Search	IOC, VOC, SOC, Microbials
365	Lawn Mowers	3 YR	Database Search	IOC, VOC, SOC
366	Chemicals (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
367	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
368	Hydraulic Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
369	Barbers Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
370	Canvas Goods-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
371	Ambulance Service	3 YR	Database Search	IOC, VOC, SOC
372	Fire Departments	3 YR	Database Search	IOC, VOC, SOC
373	Foundries-Steel	3 YR	Database Search	IOC, VOC, SOC
374	Water & Sewage Companies-Utility	3 YR	Database Search	IOC, VOC, SOC
375	Livestock Auction Markets	3 YR	Database Search	IOC, Microbials
376	Material Handling Equipment (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
377	Truck Equipment & Parts-Wholesale	3 YR	Database Search	IOC, VOC, SOC
378	Steel Fabricators	3 YR	Database Search	IOC, VOC, SOC
379	Cut Stone & Stone Products (Mfrs)	3 YR	Database Search	IOC, VOC, SOC
380	Trailers-Truck (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
381	Radio/Tv Broadcasting/Comm Equipment	3 YR	Database Search	IOC, VOC
382	Snow Removal Service	3 YR	Database Search	VOC, SOC
383	Trailer-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
384	Prefabricated Metal Buildings	3 YR	Database Search	IOC, VOC, SOC
386	Farm Supplies (Wholesale)	3 YR	Database Search	IOC, SOC, Microbials
387	Storage-Household & Commercial	3 YR	Database Search	IOC, VOC, SOC, Microbials
388	Recycling Centers (Wholesale)	3 YR	Database Search	VOC
389	Sewage Disposal Systems	3 YR	Database Search	IOC, VOC, SOC, Microbials
390	Excavating Contractors	3 YR	Database Search	IOC, VOC, SOC
391	Automobile Restoration-Antique & Classic	3 YR	Database Search	IOC, VOC, SOC
392	Grain Elevators	3 YR	Database Search	IOC, SOC, Microbials
393	Tire-Dealers-Retail	3 YR	Database Search	IOC, VOC, SOC
394	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
395	Machine Shops	3 YR	Database Search	IOC, VOC, SOC
396	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
397	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
398	Engravers-Glassware (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
399	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
400	Cabinets-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
401	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
402	Motorcycles & Motor Scooters	3 YR	Database Search	IOC, VOC, SOC
403	Publishers-Periodical	3 YR	Database Search	IOC, VOC
404	Potato Processing Equipment	3 YR	Database Search	IOC, SOC, Microbials
405	Lawn Mowers	3 YR	Database Search	IOC, VOC, SOC
406	Automobile Parts & Supplies-Wholesale	3 YR	Database Search	IOC, VOC, SOC

407	Automobile Parts & Supplies-Retail	3 YR	Database Search	IOC, VOC, SOC
408	Painters	3 YR	Database Search	IOC, VOC, SOC
409	Motorcycles & Motor Scooters-Dealer	3 YR	Database Search	IOC, VOC, SOC
410	Paving Contractors	3 YR	Database Search	IOC, VOC, SOC
411	Dresses-Manufacturers	3 YR	Database Search	IOC, VOC
412	Stereophonic & High Fidelity Equipment	3 YR	Database Search	IOC, VOC
413	Lawn Maintenance	3 YR	Database Search	IOC, VOC, SOC
415	Tire-Dealers-Retail	3 YR	Database Search	IOC, VOC, SOC
416	Transmissions-Automobile	3 YR	Database Search	IOC, VOC, SOC
417	Wheel Alignment-Frame & Axle Service	3 YR	Database Search	IOC, VOC, SOC
418	Welding Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
419	Printers	3 YR	Database Search	IOC, VOC
420	Home Builders	3 YR	Database Search	IOC, VOC, SOC
421, 422, 520	Automobile Body-Repairing & Painting, RCRA Site	3 YR	Database Search	IOC, VOC, SOC
423	Sportswear-Mens-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
424	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
425	Drilling & Boring Contractors	3 YR	Database Search	IOC, VOC, SOC
426	Ornamental Metal Work (Manufacture)	3 YR	Database Search	IOC, VOC, SOC
427	Dairy Products-Wholesale	3 YR	Database Search	IOC, SOC, Microbials
428	Mufflers & Exhaust Systems-Engine	3 YR	Database Search	IOC, VOC, SOC
429	Movers	3 YR	Database Search	IOC, VOC, SOC
430	Mufflers & Exhaust Systems-Engine	3 YR	Database Search	IOC, VOC, SOC
431	Trucking-Motor Freight	3 YR	Database Search	IOC, VOC, SOC
432	Ornamental Metal Work (Manufacture)	3 YR	Database Search	IOC, VOC, SOC
433	Wrecker Service	3 YR	Database Search	IOC, VOC, SOC
434	Storage-Household & Commercial	3 YR	Database Search	IOC, VOC, SOC
435	Trucking-Heavy Hauling	3 YR	Database Search	IOC, VOC, SOC
436	State Government-National Security	3 YR	Database Search	IOC, VOC, SOC
437	Wrecker Service	3 YR	Database Search	IOC, VOC, SOC
438	Automobile Parts & Supplies-Retail	3 YR	Database Search	IOC, VOC, SOC
439	Veterinarians	3 YR	Database Search	IOC, SOC, Microbials
440	Cleaning Compounds-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
441	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
442	Veterinarians	3 YR	Database Search	IOC, SOC, Microbials
443	Plastics-Vacuum/Pressure Forming	3 YR	Database Search	IOC, VOC, SOC
444	Tire-Retreading & Repairing	3 YR	Database Search	IOC, VOC, SOC
445	General Contractors	3 YR	Database Search	IOC, VOC, SOC
446	Service Stations-Gasoline & Oil	3 YR	Database Search	IOC, VOC, SOC
447	Veterinarians	3 YR	Database Search	IOC, SOC, Microbials
448	Puzzles (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
449	Concrete Contractors	3 YR	Database Search	IOC, VOC, SOC
450	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
451	Campgrounds	3 YR	Database Search	IOC, VOC, SOC, Microbials
452	Veterinarians	3 YR	Database Search	IOC, SOC, Microbials
453	Carpet & Rug Cleaners	3 YR	Database Search	IOC, VOC, SOC
454	Painters	3 YR	Database Search	IOC, VOC, SOC
455	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
456	Cleaners	3 YR	Database Search	IOC, VOC, SOC, Microbials

457	Automobile Detail & Clean-Up Service	3 YR	Database Search	IOC, VOC, SOC
458	Newspapers (Publishers)	3 YR	Database Search	IOC, VOC
459	General Contractors	3 YR	Database Search	IOC, VOC, SOC
460	Recycling Centers (Wholesale)	3 YR	Database Search	VOC
461	Fire Damage Restoration	3 YR	Database Search	IOC, VOC, SOC
462	Pet Services	3 YR	Database Search	IOC, SOC, Microbials
463	Nurserymen	3 YR	Database Search	IOC, SOC, Microbials
464	Tractor-Dealers (Wholesale)	3 YR	Database Search	IOC, VOC, SOC
465	Hydraulic Equipment & Supplies	3 YR	Database Search	IOC, VOC, SOC
466	Automobile Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
467	Trucking-Motor Freight	3 YR	Database Search	IOC, VOC, SOC
468	Truck Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
469	Truck Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
470	Truck Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
471	Truck Renting & Leasing	3 YR	Database Search	IOC, VOC, SOC
472	Microfilming Service Equipment	3 YR	Database Search	IOC, VOC, SOC
473	Government-Forestry Services	3 YR	Database Search	IOC, VOC, SOC
474	Federal Government-National Security	3 YR	Database Search	IOC, VOC, SOC
475	Snowmobiles	3 YR	Database Search	IOC, VOC, SOC
476	Printers	3 YR	Database Search	IOC, VOC
477	Automobile Parts-Used & Rebuilt	3 YR	Database Search	IOC, VOC, SOC
478	Sheet Metal Work Contractors	3 YR	Database Search	IOC, VOC, SOC
479	Automobile Repairing & Service	3 YR	Database Search	IOC, VOC, SOC
480	Powder Coatings (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
481	Trucking-Heavy Hauling	3 YR	Database Search	IOC, VOC, SOC
482	Controls Control Sys/Regulators	3 YR	Database Search	IOC, VOC
483	Wheels	3 YR	Database Search	IOC, VOC, SOC
484	Ornamental Metal Work (Manufacture)	3 YR	Database Search	IOC, VOC, SOC
485	General Contractors	3 YR	Database Search	IOC, VOC, SOC
486	Lawn & Garden Equipment & Supplies	3 YR	Database Search	IOC, SOC, Microbials
487	Funeral Directors	3 YR	Database Search	IOC, SOC
488	Furniture-Manufacturers	3 YR	Database Search	IOC, VOC, SOC
489	Automobile Dealers-Used Cars	3 YR	Database Search	IOC, VOC, SOC
490	Roofing Contractors	3 YR	Database Search	IOC, VOC, SOC
491	Service Stations-Gasoline & Oil	3 YR	Database Search	VOC, SOC
492	Service Stations-Gasoline & Oil	3 YR	Database Search	VOC, SOC
493	Automobile Lubrication Service	3 YR	Database Search	VOC, SOC
494	Signs (Manufacturers)	3 YR	Database Search	IOC, VOC, SOC
495	NPDES Site, Industrial discharge	3 YR	Database Search	IOC, VOC, SOC, Microbials
496	NPDES Site, Municipal discharge	3 YR	Database Search	IOC, VOC, SOC, Microbials
497, 524, 560	SARA, Wet Corn Milling, SARA Site, RCRA Site, TRI Site	3 YR	Database Search	IOC, VOC, SOC
498	TRI Site, No additional data	3 YR	Database Search	IOC, VOC, SOC
499	CERCLA Site, Utah Power & Light Co. :Permit Holder	3 YR	Database Search	IOC, VOC, SOC
500	CERCLA Site, Great Western Chemical Co :Permit Holder	3 YR	Database Search	IOC, VOC, SOC
501	RCRA Site, 2240 S Yellowstone Hwy	3 YR	Database Search	IOC, VOC, SOC
503	RCRA Site, 2105 INDUSTRIAL	3 YR	Database Search	IOC, VOC, SOC

	BLVD		
507	RCRA Site, 505 1ST ST	3 YR	Database Search IOC, VOC, SOC
508	RCRA Site, 1465 Northgate Mile	3 YR	Database Search IOC, VOC, SOC
509	RCRA Site, 1515 Northgate Mile	3 YR	Database Search IOC, VOC, SOC
510	RCRA Site, 594 E 1ST ST	3 YR	Database Search IOC, VOC, SOC
511	RCRA Site, 555 W 25TH ST	3 YR	Database Search IOC, VOC, SOC
512	RCRA Site, 253 1ST ST	3 YR	Database Search IOC, VOC, SOC
513	RCRA Site, 1626 Hollipark Dr	3 YR	Database Search IOC, VOC, SOC
516	RCRA Site, 2101 Hemmert Ave	3 YR	Database Search IOC, VOC, SOC
517	RCRA Site, 1515 LINCOLN RD	3 YR	Database Search IOC, VOC, SOC
518	RCRA Site, 2300 N Yellowstone Hwy	3 YR	Database Search IOC, VOC, SOC
519	RCRA Site, 320 N Holmes Ave	3 YR	Database Search IOC, VOC, SOC
521	RCRA Site, 570 Pancheri Dr	3 YR	Database Search IOC, VOC, SOC
522	RCRA Site, 265 1ST ST	3 YR	Database Search IOC, VOC, SOC
525	RCRA Site, 5666 N Yellowstone Hwy	3 YR	Database Search IOC, VOC, SOC
527	RCRA Site, 700 E 17TH ST	3 YR	Database Search IOC, VOC, SOC
528	RCRA Site, 170 Northgate Mile	3 YR	Database Search IOC, VOC, SOC
529	RCRA Site, 805 Northgate Mile	3 YR	Database Search IOC, VOC, SOC
530	RCRA Site, 575 W 21ST ST	3 YR	Database Search IOC, VOC, SOC
531	RCRA Site, 1527 Hollipark Dr	3 YR	Database Search IOC, VOC, SOC
532	RCRA Site, 965 LINCOLN RD	3 YR	Database Search IOC, VOC, SOC
533	Mine, Sand & Gravel	3 YR	Database Search IOC, VOC, SOC
534	Mine, Sand & Gravel	3 YR	Database Search IOC, VOC, SOC
535	Mine, Sand & Gravel	3 YR	Database Search IOC, VOC, SOC
536	Mine, Stone	3 YR	Database Search IOC, VOC, SOC
537	Mine, Sand & Gravel	3 YR	Database Search IOC, VOC, SOC
538	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
539	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
540	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
541	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
542	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
543	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
544	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
545	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
546	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
547	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
548	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
549	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
550	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
551	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
552	Deep Injection Well, Active	3 YR	Database Search IOC, VOC, SOC
553	SARA Site,	3 YR	Database Search IOC, VOC, SOC
554	SARA, Food Preparations, NEC	3 YR	Database Search IOC, VOC, SOC
555	SARA, Industrial Gases	3 YR	Database Search IOC, VOC, SOC
556	SARA,	3 YR	Database Search IOC, VOC, SOC
557	SARA, Farm Supplies	3 YR	Database Search IOC, VOC, SOC
558	SARA, Steel Wire Draw & Steel Nails	3 YR	Database Search IOC, VOC, SOC
559	SARA, Gasoline Service Stations	3 YR	Database Search VOC, SOC

564	SARA, Perfumes, Cosmetics, Toilet Prep	3 YR	Database Search	IOC, VOC, SOC
565	SARA,	3 YR	Database Search	VOC, SOC
569	SARA, Gasoline Service Stations	3 YR	Database Search	VOC, SOC
570	SARA, Farm Supplies	3 YR	Database Search	IOC, VOC, SOC
572, 586	SARA, Brick, Stone & Relay Materials, AST Site	3 YR	Database Search	IOC, VOC, SOC
573	SARA, Industrial Machinery and Equipment	3 YR	Database Search	VOC, SOC
574	SARA, Telephone Com, Except Radio	3 YR	Database Search	IOC, VOC, SOC
576	SARA,	3 YR	Database Search	IOC, VOC, SOC
581	SARA, Telephone Com, Except Radio	3 YR	Database Search	VOC, SOC
582	Recharge, Unused	3 YR	Database Search	IOC, VOC, SOC
583	Recharge, Unused	3 YR	Database Search	IOC, VOC, SOC
584	Recharge, Unused	3 YR	Database Search	IOC, VOC, SOC
585	Recharge, Unused	3 YR	Database Search	IOC, VOC, SOC
590	AST, Agricultural Chemicals	3 YR	Database Search	VOC, SOC
592	Group 1 Site,	3 YR	Database Search	IOC, VOC, SOC
593	Dairy, 927 Cows	6 YR	Database Search	IOC
594	NPDES Site, Municipal discharge	6 YR	Database Search	IOC, VOC, SOC
595	CERCLA Site, W. C. Timber Products :Permit Holder	6 YR	Database Search	IOC, VOC, SOC
596	Mine, Sand & Gravel	6 YR	Database Search	IOC, VOC, SOC
597	Mine, Sand & Gravel	6 YR	Database Search	IOC, VOC, SOC
598	Deep Injection Well, Active	6 YR	Database Search	IOC, VOC, SOC
599	Recharge, Unused	6 YR	Database Search	IOC, VOC, SOC
600	WLAP Site, Potato Processing	6 YR	Database Search	IOC, SOC
601	WLAP Site, Potato Processing	6 YR	Database Search	IOC, SOC
602	WLAP Site, Potato Processing	6 YR	Database Search	IOC, SOC
603	UST Site, Farm , Impact: Closed	10 YR	Database Search	VOC, SOC
604	UST Site, Federal Non-Military , Impact: Closed	10 YR	Database Search	VOC, SOC
605	NPDES Site, Municipal discharge	10 YR	Database Search	IOC, VOC, SOC
606	Mine, Phosphate	10 YR	Database Search	IOC, VOC, SOC
607	Mine, Geothermal	10 YR	Database Search	IOC, VOC, SOC
608	Mine, Geothermal	10 YR	Database Search	IOC, VOC, SOC
609	Deep Injection Well, Active	10 YR	Database Search	IOC, VOC, SOC
610	Deep Injection Well, Active	10 YR	Database Search	IOC, VOC, SOC
611	Recharge, Unused	10 YR	Database Search	IOC, VOC, SOC
612	WLAP Site, Municipal	10 YR	Database Search	IOC, VOC, SOC
	Fall River	10 YR	GIS Map	IOC, VOC, SOC
	Highway 33	10 YR	GIS Map	IOC, VOC, SOC
	Snake River	3 YR, 6 YR	GIS Map	IOC, VOC, SOC, Microbials
	Willow Creek	3 YR	GIS Map	IOC, VOC, SOC, Microbials
	Union Pacific Railroad	3 YR	GIS Map	IOC, VOC, SOC, Microbials
	Highway 91	3 YR, 6 YR	GIS Map	IOC, VOC, SOC, Microbials

² SARA Site = Superfund Authorization Recovery Act, NPDES Site = National Pollutant Discharge Site, UST Site = Underground Storage Tank, LUST Site = Leaking Underground Storage Tank, RCRA Site = Resource Conservation Recovery Act Site, WLAP Site = Waste Land Application Site.

² TOT = time-of-travel (in years) for a potential contaminant to reach the wellhead

³ IOC = inorganic chemical, SOC = synthetic organic chemical, VOC = volatile organic chemical